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## **BACKGROUND**

Over 30 years experience in Telecommunications, Rural Development, Distance Education, and Telemedicine program development. Since 1991 Dr.. Tyndall has been responsible for program development for Distance Education, Telemedicine, Rural Telecommunications, Rural Area Economic Development, GIS mapping, and Professional Technology Skills Training for government staff, teachers, physicians and rural community leaders.

Dr.. Tyndall has served as Principle Investigator for projects funded by the National Science Foundation for work in Costa Rica, Honduras, Belize and the United States.

Dr.. Tyndall has served as Principle Investigator for the U.S. Geographical Survey and as Project Director for 5 Rural Development programs funded through the U.S. Department of Agriculture. Dr.. Tyndall has also served as Director of Programs funded by the California Telemedicine and Telehealth Foundation, U.C. Davis, and the California Consumer Protection. He has worked closely with Dr. Robert Muller, (Assistant Secretary General, United Nations, retired) on a variety of International Health Education and Rural Technology Development projects since 1986.

Dr.. Tyndall is the President and founder of Visible Light, Inc. (a non-profit Foundation started in 1978, based in Santa Barbara, California) and Director of the RAIN Network, (Visible Light's Rural Technology Network).

Dr. Tyndall is published in numerous Journals and has been internationally recognized for research in Rural Development, International Studies, Telemedicine, and Distance Education.

Dr. Tyndall's work with Distance Education has received a Smithsonian Institution Technology Innovation Award and has been an invited presenter for the National Academy of Science, CODATA Research Council.

In 2009 Dr. Tyndall served as a grants review panel member for the USDA CSREES Beginning Farms and Ranches program.

## **Project Experience:**

**1991-** Current – Director – Visible Light RAIN Network Rural Development, Distance Learning and Telemedicine Program. Responsible for senior staff, contracts, grants and program development.

**2009 - 2012** – Project Manager - Kaiser Permanente Community Benefits grant working through the Ventura County Safety-Net Specialty Care Access Coalition and the Ventura Pediatric Diagnostic Center. Telemedicine Network, equipment and Continuing Medical Education services for clinics and County Health Care in Ventura County, CA.

**2008 – 2009** – Project Director - California Council for the Humanities – Rural California Local History video and web development grant. This project will develop video and web based resources for a series of local history videos which will tell the story of life in Rural California today. The focus of the Local History Project is on work with youth, seniors and rural community families

**2007 - 2009** – Project Manager - Ventura County First 5 and the Ventura Pediatric Diagnostic Center – telemedicine, family wellness resources for low-income, underserved residents and Continuing Medical Education and telemedicine video development grant.

**2003-2006** - Project Director, US Department of Agriculture distance learning and telemedicine grant project linking 150 rural communities in the United States. Project involved set up of rural technology hubs, telemedicine and agriculture technology skills training, curriculum support for K-12 schools, telemedicine training and Continuing Medical Education for rural Health Clinic staff, and rural community economic development.

**2003-2004** - Principle Investigator – US Geological Survey – GIS data mapping for telemedicine and resource management in rural areas.

**2002-2003** – Project Director – California Telehealth and Telemedicine Foundation, UC Davis – 1 year special project providing Physician and Nurse Technology / Telemedicine Skills training workshops and Telemedicine Technology Skills web site development.

**2000-2002** – Project Director, US Department of Agriculture distance learning and telemedicine project serving 24 rural communities in California.

**2000-2001** – Project Manager, Department of Defense Electronic Commerce Resource Center, California.

**1999 - 2000** – Project Director - U.S. Department of Agriculture Rural Development CYFAR (Children, Youth and Families at Risk) Project in partnership with the University of California, the Santa Barbara Housing Authority and the USDA

**1998-1999** – Project Director – US Department of Agriculture distance learning and Telemedicine award linking 16 rural communities and clinics in Central California with new community based telecommunications hubs, technology literacy skills training, rural economic development startup programs and telemedicine hub setup and training for physicians and nurses.

**1998-2002** – Program Coordinator - Department of Education Technology Challenge Grant providing Teacher Technology Skills training for 400 California K-14, (elementary, high school, and Community College), teachers. Provided Continuing Education Credits for participating teachers through California State University, Northridge.

**1997-1998** – Project Director - US Department of Agriculture distance learning and Telemedicine award linking 9 rural communities & clinics in Central California with new community based telecommunications hubs, rural economic development and telemedicine program startup.

**1993-1996** – Principle Investigator -National Science Foundation – Pacific Rim Distance Education and Telemedicine Technology Program

#### **Awards:**

**1999** – Smithsonian Institution Technology Innovation Award

**1999 / 2001** – AOL Rural Community Capacity Builder Awards

#### **A. Selected peer-reviewed publications (in chronological order).**

- Tyndall, Timothy, Case Study - Use of Computer Assisted Education Tools in Developing Countries, The Distance Learning University, San Jose, Costa Rica 1995, ED176558
- Tyndall, Timothy, Use of GIS data mapping in Rural Distance Education and Telemedicine Applications, National Academy of Science, National Research Council, CODATA Committee, CODATA Conference, Washington, D.C., 1997
- Tyndall, Timothy, Use of Satellite Video Conferencing Tools for Rural Telemedicine Program, Rural Telecom Conference – Aspen, Colorado 1997
- Tyndall, Timothy, Developing Technology Literacy Skills in Rural Areas, International Internet Society, Geneva, Switzerland, 1998

- Tyndall, Timothy, Use of Online Curriculum in Public K-12 Classrooms, California Dept. of Education Technology Literacy Program, 1999
- Tyndall, Timothy, Odaz, Frank, Video Applications in very Rural Areas Distance Education Development, Rural Telecom Conference – Aspen, Colorado 1999
- Tyndall, Timothy, Internet Delivered Video and GIS Data Mapping Tools for Classroom and Community Applications, Association for the Advancement of Computers in Education, 1999, Honolulu, Hawaii
- Tyndall, Timothy, Waltenberg, Ben, Use of GIS Data Systems for Coastal Management, U.S. Department of Interior California Islands Symposium, Santa Barbara, CA., 1999
- Tyndall, Timothy, U.S./European Rural and Urban Technology Planning for At-Risk Population Groups, International Telecommunications Society, Seattle, Washington, 2000
- Tyndall, Timothy, US/European Rural Technology Framework Development Plan, European Telecommunications Conference, Venice, Italy, 2000
- Tyndall, Timothy, Use of GIS Data Mapping and Internet Video Systems for Rural and Urban Telemedicine and Distance Education Programs, International Internet Society Conference, Tokyo, Japan, 2000
- Tyndall, Timothy, Odaz, Frank, Use of Internet Delivered Video and GIS Managed Personal Folder Systems for Rural Education and Health Care Programs, Rural Telecom Conference Paper – Aspen, Colorado 2000
- Tyndall, Timothy, Rural Technology Literacy Development, Canadian Library Association Get Smart Conference, Montreal, Canada 2000
- Tyndall, Timothy, Using the Internet to Link Classrooms and Communities, SITE Conference, Orlando FL 2001
- Tyndall, Timothy, Developing A Statewide Framework for Professional Teacher Technology Skills Development, Tech Ed Conference, Anaheim CA, 2001
- Tyndall, Timothy, International Internet Society Conference, Stockholm, Sweden, 2001
- Tyndall, Timothy, European-North American Rural Development Technology Partnership Programs, ED-MEDIA, Helsinki, Finland 2001
- Tyndall, Timothy, Use of GIS and Video Tools in Today's Classroom, Tech Ed Conference, San Diego, Ca. 2002
- Tyndall, Timothy, Report on Recent Rural Community Telemedicine and Distance Learning Programs in the Southwest, Access Native America, Gallup, New Mexico, 2002
- Tyndall, Timothy, New Interactive GIS Applications in Classroom and Community Use, ESRI GIS Paper and Conference presentation, San Diego, Ca., 2002
- Tyndall, Timothy, Report on USDA Funded Community Technology Projects, SITE, Nashville, Tennessee, 2002
- Tyndall, Timothy, Development of Online Learning Systems for Advanced Learners, GATE Conference Santa Clara, Ca., 2003
- Tyndall, Timothy, Technology Literacy Skills Development in Rural Areas, SITE Albuquerque, New Mexico, 2003

- Tyndall, Timothy, Use of GIS and Internet Delivered Video Tools in the Classroom, MECC Phoenix, Arizona, 2003
- Tyndall, Timothy, Personal Electronic Portfolio Applications in Native American Schools, Access Native America, Phoenix, Arizona 2003
- Tyndall, Timothy, Pacific Rim Technology Programs Development, Hawaii InfoTech Conference, Honolulu, Hawaii - 2003
- Tyndall, Timothy, Broadband Wireless and Cell Phone Based Community Wellness and Online Learning Program Tools, International Conference on Computers in Education, Hong Kong – 2003
- Tyndall, Timothy, Pacific Rim Technology Skills Development Framework, E-School, Honolulu, Hawaii, 2004
- Tyndall, Timothy, Use of GIS and Interactive Video Tools in the Development of Online GATE Programs, California Gifted, Anaheim, Ca., 2004
- Ed Media, Geneva, Switzerland, 2004
- Tyndall, Timothy, “Development of an Integrated EU/China/US Rural Telemedicine and Distance Learning Program”, International Telecommunication Union – Hong Kong, China, 2006
- International Telecommunications Union, World Conference, Hong Kong, “Achieving Connected Communities Highly Interactive GIS as a Rural Community Telemedicine and Education Tool”, 2007
- Eighth International Conference on Knowledge, Culture and Change in Organisations, Cambridge University, United Kingdom 2008, “Rural Community Telemedicine and Health Education Tools”, 2008
- 2nd Symposium on Academic Globalization (AG 2008) included in the 12th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2008), "Use of new, highly interactive GIS data visualization tools for Academic Publications and Information Exchange", 2008
- 11th International Conference on Advanced Communication Technology, (ICTACT), Phoenix Park, Gangwon-Do, South Korea. “Use of GIS in the study of rural electrification project design and implementation”, 2009
- Tech-Ed – 14<sup>th</sup> Conference on Technology In Education, Ontario, California, 2009. Speaker and Paper presentation. “New Mobile Technology in the Classroom”.
- International Conference on Engineering and Technology (IMETI) 2009. “Creating Connected Communities – Use of GIS in Rural Development”. Orlando, Florida.
- International Association for the Development of the Information Society (IADIS), “Creating Connected Communities – Use of GIS in Rural Development”, Barcelona, Spain. February 2009.

